

Claim Amendments

Claim 1 (currently-amended): A cylinder jacket profile configuration for a rotary printing press cylinder, comprising:

a sheet-guiding cylinder jacket profile having a spherical surface structure; and

an easy-clean microstructure layer as a surface coating for said sheet-guiding cylinder jacket profile, said easy-clean microstructure layer having a thickness of less than 5 μm and a surface energy of less than 50 mN/m.

Claim 2 (previously-presented): The cylinder jacket profile configuration according to claim 1, wherein said thickness of said easy-clean microstructure layer is substantially 1 μm .

Claim 3 (previously-presented): The cylinder jacket profile configuration according to claim 1, wherein said sheet-guiding cylinder jacket profile includes an anti-wear layer, said easy-clean microstructure layer is disposed on said anti-wear layer.

Claim 4 (original). The cylinder jacket profile configuration according to claim 3, wherein said anti-wear layer is a chromium layer.

Claim 5-6 (cancelled).

Claim 7 (previously-presented): The cylinder jacket profile configuration according to claim 1, wherein said easy-clean microstructure layer exhibits a lotus effect.

Claim 8 (currently-amended): ~~The cylinder jacket profile configuration according to claim 1, wherein said spherical structure has elevations, and said easy clean microstructure layer is interrupted on said elevations~~

A cylinder jacket profile configuration for a rotary printing press cylinder, comprising:

a sheet-guiding cylinder jacket profile including a spherical surface structure having elevations;

an easy-clean microstructure layer as a surface coating for said sheet-guiding cylinder jacket profile, said easy-clean microstructure layer being interrupted on said elevations, and

said easy-clean microstructure layer having a thickness of less than 5 μm and a surface energy of less than 50 mN/m.

Claim 9 (currently-amended): ~~The cylinder jacket profile configuration according to claim 1, wherein said spherical structure has depressions, and said easy-clean microstructure layer is provided only in said depressions~~

A printing press, comprising:

a cylinder having a jacket surface with a cylinder jacket profile including a spherical surface structure having depressions; and

an easy-clean microstructure layer provided as a surface coating for said cylinder jacket profile, said easy-clean microstructure layer being provided only in said depressions, and said easy-clean microstructure layer having a thickness of less than 5 μm and a surface energy of less than 50 mN/m

Claim 10 (cancelled).

Claim 11 (previously-presented): A method for producing an easy-clean layer on a cylinder jacket profile, the method which comprises:

providing a cylinder jacket profile having a spherical surface
~~structures~~ structure; and

applying an easy-clean layer as a surface coating for the
cylinder jacket profile, the easy-clean layer providing a
microstructure to the jacket profile such that the easy-clean
layer has a thickness of less than 5 μm and a surface energy
of less than 50 mN/m.

Claim 12 (original). The method according to claim 11, which
comprises applying the easy-clean layer such that the
thickness of the easy-clean layer is substantially 1 μm .

Claim 13 (currently-amended): ~~The method according to claim~~
~~11, which comprises~~

A method for producing an easy-clean layer on a cylinder
jacket profile, the method which comprises:

providing a cylinder jacket profile having a spherical surface
structure;

applying an easy-clean layer as a surface coating for the
cylinder jacket profile, the easy-clean layer providing a

microstructure to the jacket profile such that the easy-clean layer has a thickness of less than 5 μm and a surface energy of less than 50 mN/m; and

applying the easy-clean layer initially as a substantially uninterrupted layer and subsequently removing the easy-clean layer from elevations of the spherical surface structure.

Claim 14 (original). The method according to claim 13, which comprises removing the easy-clean layer by contacting the easy-clean layer with a printing sheet during a printing operation.

Claim 15 (currently-amended): A printing press, comprising:

a cylinder having a jacket surface with a cylinder jacket profile having a spherical surface structure; and

an easy-clean microstructure layer provided as a surface coating for said cylinder jacket profile, said easy-clean microstructure layer having a thickness of less than 5 μm and a surface energy of less than 50 mN/m.

Claim 16 (original). The printing press according to claim 15, wherein said cylinder is a sheet-guiding cylinder selected

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from the group consisting of an impression cylinder and a
sheet transfer cylinder configured for a recto/verso printing.